

Screwdriving Unit for Universal Robots

PD400UR SERIES



UNIVERSAL ROBOTS+
Certified

The first Japanese made "UR+" certified screwdriving unit

Picks up screw from screw feeder and drivers at preset locations automatically.
Magnetic pickup and vacuum pickup are available.

HIGH PRECISION SCREWDRIVING

Feature 01

Equipped with Nittoseiko "NX Driver T3 Series" and "SD600T Controller". 16 programs with different settings (torque value, rotation speed, etc.) for each screwdriving locations are configurable and enable a variety of robotic screwdriving.

SMALL AND LIGHTWEIGHT SCREWDRIVING UNIT

Feature 02

Small and lightweight screwdriving unit reduces workload of robot. Accessible in tight spaces and enables various automated screwdriving applications.



Magnetic pickup



Vacuum pickup

EASY SETUPS AND SCREWDRIVING SETTINGS

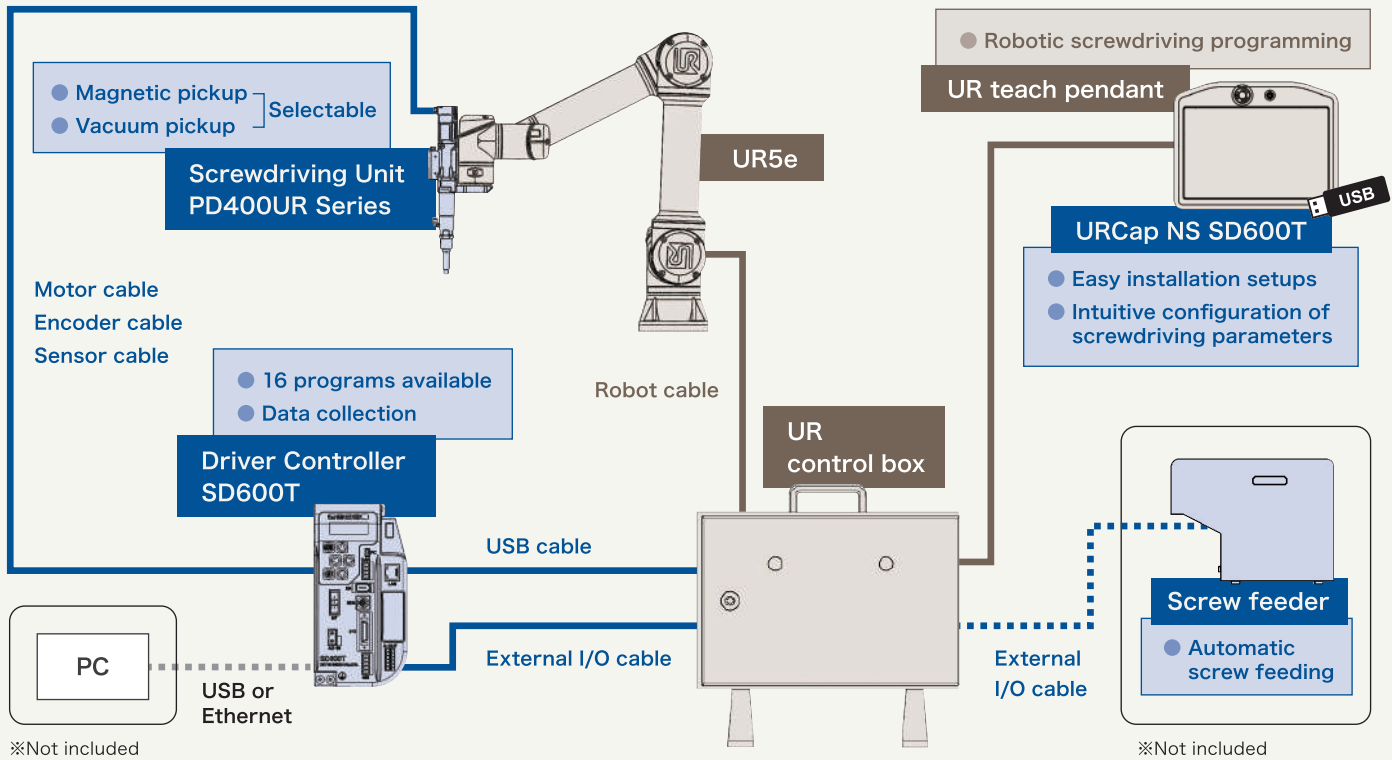
Feature 03

URCap "NS SD600T" enables easy installation setups on UR teach pendant and simple intuitive configuration of screwdriving parameters (torque value, rotation speed, etc.) stored on "SD600T" controller.



URCap 'NS SD600T' screen images

Configuration diagram



Specifications

Model#	PD400URM	PD400URV
Screw pickup	Magnetic	Vacuum
Torque range (Nm)	0.5 ~ 6.0	
Max rotation speed (min ⁻¹)	1,100	
Applicable screws	Typical screws	M2.5 ~ M5
	Screw head diameter	- up to Φ9 (M5 pan head)
	Thread length	up to 15mm
Applicable screwdriver model#	NX020T3, NX050T3, NX100T3 (select one from above)	
Screwdriving tool unit weight (kg)	1.6 ~ 1.8 (depending on model#)	
Controller model#	SD600T03-2020, SD600T05-2020 (depending on model#)	
Controller weight (kg)	1.4	
Power supply	single phase 200 - 230VAC ±10% 50/60 Hz	
Power consumption (VA)	450 ~ 750 (depending on model#)	
Available programs (channel)	Up to 16 programs (0 ~ 15ch)	

Model#	PD400URM	PD400URV			
Applicable UR model#	UR5e				
Mechanical interface	ISO 9409-1-50-4-M6				
URCap	NS SD600T				
Software	Polyscope Version 5.4+				
Screwdriver bit	Phillips	#1	#1		
		#2	#2		
	Hex (optional)	-	H2.5	H3	H4
TORX® (optional)	-	(improper screwdriver bit engagement may occur)	T10	T15	T20

※Refer to each series catalog for details of NX Driver T3 series and screw feeders.
 ※Available program number may be limited depending on robot IO settings.
 ※Vacuum generators are not included.
 ※TORX® is a registered trademark of Acument Intellectual Properties LLC.

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